

# Object Handler - Settings

With the Settings function, you can specify option settings for the unload, load or scan function and parameter settings for the unload or load function.

\*The cross-references in the tables below regarding the name, date and time parameters refer to the section Name, Date and Time Specification.

## To invoke the Settings screen

- From any of the unload, load or scan screens, enter the internal command SETTINGS (see also Commands for CUIs).  
Or, activate the Advanced-user mode, choose a function and choose ENTER to start the processing procedure.  
Or, in the Advanced-user screens, choose **PF7/Setti**.

Unless selected by default, to activate the options provided with the Settings screen described below, mark the corresponding input field with any single character.

This section covers the following topics:

- Settings Screen Fields
- Set Additional Options
- Set Global Parameters

## Settings Screen Fields

The Settings screen provides the following **fields and PF keys**:

Field	PF Key	Explanation
Transfer format		<p>Only valid if Use default options (this is the default) has been selected.</p> <p>If selected, the data to be processed is written in Transfer format to/from the work file. See also Work File Format in the section Work Files.</p> <p>Unload function: The data to be unloaded are written in Transfer format to the work file. Note that if you want to change the setting of this field for a subsequent unload, you need to return to the <b>Natural</b> Object Handler <b>Main Menu</b> or enter the command GO UNLOAD END (see Commands for CUIs) and restart the unload function.</p> <p>Load and scan functions: The data to be loaded or scanned are expected to be in Transfer format.</p>
Use PC File		<p>Only applies if Entire Connection is installed.</p> <p>Writes data into an Entire Connection work file.</p>
PC File		<p>Only applies if Entire Connection is installed.</p> <p>The path and name of the Entire Connection work file.</p>
Use default options		Default options are used by default: see SYSOBJH Profile and Set Additional Options below.

Field	PF Key	Explanation
Set additional options	PF4	Only valid if Use default options has been selected.  Invokes the Options screen where you can modify the default settings and enter additional options for the processing sequence. See also Set Additional Options below.
Use <b>Option</b> Workplan		A Workplan of the type OPTION is used. See also Workplans.
Name (next to Use <b>Option</b> Workplan)		Only valid if Use <b>Option</b> Workplan has been selected.  The name of a Workplan of the type OPTION to be used.
List <b>Option</b> Workplan	PF6	Only valid if Use <b>Option</b> Workplan has been selected.  Displays the contents of the Workplan specified in the field Name next to Use <b>Option</b> Workplan.
Select <b>Option</b> Workplan	PF5	Only valid if Use <b>Option</b> Workplan has been selected.  Displays a selection list of available Workplans of the type OPTION (see also List Workplan in the section Administration).
Do not use parameters		No parameters are used by default.
Use global parameters		Global parameters are used. See Set Global Parameters below.
Set global parameters	PF7	Only valid if "Use global parameters" has been selected.  Invokes the global parameters screen. See Set Global Parameters and Parameter-Setting (Direct and PROCEDURE Workplan Syntax, Commands) for a description of the keywords and the valid values.
Use <b>Parameter</b> Workplan		A Workplan of the type PARAMETER is used. See also Workplans.
Name (next to Use <b>Parameter</b> Workplan)		Only valid if Use <b>Parameter</b> Workplan has been selected.  The name of a Workplan of the type PARAMETER to be used.
List <b>Parameter</b> Workplan	PF9	Only valid if Use <b>Parameter</b> Workplan has been selected.  Displays the contents of the Workplan specified in the field Name next to Use <b>Parameter</b> Workplan.
Select <b>Parameter</b> Workplan		Only valid if Use <b>Parameter</b> Workplan has been selected.  Displays a selection list of available Workplans of the type PARAMETER. See also List Workplan in the section Administration.

## Set Additional Options

The sections contained in the Options screen are listed below. Note that not all of the sections may appear on the screen, because they depend on the function used, the settings defined and the products installed.

- Work File **and Report** Options
- XREF Options
- **Version Check**
- Transfer Options
- Replace Options
- Number to Process
- FDIC Setting
- FSEC Setting

For a description of the keywords and the valid values, see also Option-Setting in the section Direct and PROCEDURE Workplan Syntax, Commands.

## **Work File **and Report** Options**

The following data can be entered in the fields of the section Work File **and Report** Options:

Field	Explanation
Use PC File	Only applies if Entire Connection is installed.  Writes data into an Entire Connection work file.
PC File	Only applies if Entire Connection is installed.  The path and name of the Entire Connection work file.
Write report	Writes a report of the objects processed to a text member in the Workplan library. To display the report, enter the internal command SHOW REPORT FILE (see also the section Commands for CUIs).
Start new Report	Only valid if "Write report" has been selected.  Deletes the contents of the text member in the Workplan library before a new report is written. Otherwise, a new report is appended to the existing one.
Report text member	Only valid if "Write report" has been selected.  The name of the text member stored in the Workplan library into which the report is written.
Select text member	Displays a list of all text members stored in the Workplan library. From this list, you can select a "Report text member".
Write restart information	Only applies to the load function.  With this option you can resume load functions that terminated abnormally.  The selection criteria, the option, the parameter settings and the objects already processed are written as restart information to a text member in the Workplan library (see Restart file below). If the load function terminates before the work file has been processed completely, with the restart function you can continue from the point of termination. To invoke the restart function, enter the internal command GO RESTART (see also the section Commands for CUIs).
Restart text member	Only applies to the load function and if "Write restart information" has been selected.  The name of the text member in the Workplan library into which the restart information is written.  If you do not specify a name, the Object Handler generates a name and assigns it to the text member.
Select text member	Displays a list of all text members stored in the Workplan library. From this list, you can select a "Restart text member".

## XREF Options

The XREF Options are only available when **unloading or loading data** in internal format, that is, if the field "Transfer format" has **not** been selected. To process XREF data, Predict must be installed.

The available XREF options depend on the function selected:

Field	Explanation	Function
Yes (unload/load XREF data)	Unloads cataloged objects and their cross-reference data, if any. Loads cataloged objects and their cross-reference data if cross-references exist on the work file.	Unload Load
No (ignore XREF data)	No XREF data is processed.	Unload Load
Force	Loads cataloged objects and their cross-reference data only if cross-references exist on the work file and if Predict entries exist for the objects in the FDIC system file.	Load
Doc	Loads cataloged objects only if Predict entries exist for the objects in the FDIC system file.	Load
Special	Loads cataloged objects and their cross-reference data (if any).	Load

## Version Check

The option "Version check" is only available when loading data in internal format, that is, if the field "Transfer format" has not been selected.

If "Version check" is marked, the Natural version under which the objects were cataloged and written into the work file is compared with the current Natural version. Objects cataloged under a Natural version higher than the current one will be rejected.

## Transfer Options

The Transfer Options are only available when processing data in Transfer format, that is, if the field "Transfer format" has been selected.

The Transfer Options depend on the function selected:

Option	Explanation	Function
Substitute line references	Only applies if source-code line numbers are used for statement references.  If line numbers are used as references in the source code, the line numbers of referenced lines and the line number references are replaced with labels. The sources are not modified in the database.	Unload
Include <b>Line Numbers</b>	By default, line numbers in Natural objects are not transferred. If you choose this option, line numbers in Natural will be transferred.	Unload
Incorporate free rules	If Predict is installed, Predict rules associated with the map are incorporated into the map source.	Unload
Use conversion table	Unload: Converts data into <b>ASCII</b> format using the internal Natural conversion table (System table) or a conversion table defined by the user (User table).  Load: Converts data into <b>EBCDIC</b> format using the internal Natural conversion table (System table) or a conversion table defined by the user (User table). Note that this only applies if the data in the work file are in <b>ASCII</b> format or if a conversion program is specified (see User table).	Unload Load
System table	Only valid if Use conversion table has been selected.  Unload: Converts data into EBCDIC format using the internal Natural conversion table.  Load: Converts data into ASCII format using the internal Natural conversion table.	Unload Load
User table	Only valid if Use conversion table has been selected.  If the name of a conversion program has been entered in the field, data is converted into EBCDIC <b>or ASCII</b> format using the conversion program defined. To specify an individual conversion program, the program must be located in the library SYSOBJH or one of its steplib. See the example <b>program OTNCONEA</b> in the library SYSOBJH.	Unload Load
Translate to upper case	Any source code to be loaded is translated into upper case.	Load

## Replace Options

The Replace Options below only apply to the load function:

Do not replace	Does not replace any objects. This is the default.
Replace all	Replaces all objects.
Replace obsolete	Replaces objects with a date older than the date of the object in the load file.
Replace except newer	Replaces all objects except those with a date newer than the date of the object in the load file.

## Number to Process

Applies to the load and scan functions only.

In the field "Number to process", enter a numeric value with a maximum of 5 digits.

If a value greater than 0 is specified, the load or scan function stops after the specified number of object was processed from the work file.

**Note:**

If a cataloged Natural object is processed directly after the source object of the same name, they are counted as one object.

## FDIC Setting

With the FDIC Setting option, you specify the Predict file (FDIC) used to process XREF data (**only applies if Predict is installed**) or load DDMs:

DBID	The DBID of the FDIC file to be used.
FNR	The FNR of the FDIC file to be used.
Password	Optional. The Adabas password for the Adabas file of the FDIC file to be used.
Cipher	Optional. The cipher code for the Adabas file of the FDIC file to be used.

## FSEC Setting

Only applies if Natural Security is installed.

With the FSEC Setting option, you specify the Natural Security data file (FSEC) used for security checks:

DBID	The DBID of the FSEC file to be used.
FNR	The FNR of the FSEC file to be used.
Password	Optional. The Adabas password for the Adabas file of the FSEC file to be used.
Cipher	Optional. The cipher code for the Adabas file of the FSEC file to be used.

## Set Global Parameters

**Not applicable to the scan function.**

The global parameters are used to change object parameters during the load or unload function, and to change the target environment during the load function.

If they are specified during the unload function, the parameter settings affect the objects before they are written to the work file. If they are specified during the load function, the parameter settings affect the objects before they are written to the target environment.

The parameters consist of the Check Value and the New Value, except for "Error number difference" and "System files for load". If no Check Value is specified, the New Value applies to all objects which have this attribute. For example: Natural system error messages have no library name. Therefore, the value in the field New Value is ignored.

For valid values, see also Parameter-Setting in the section Direct and PROCEDURE Workplan Syntax, Commands.

The following data can be specified for the load and the unload functions:

Field	Explanation
Object name	<p>Check Value: A single object name or a range: see (*) Name.</p> <p>New Value: A single object name or a range: see (*) Name.</p> <p>See also Rules for New Values below.</p>
Library	<p>Check Value: A single library name or a range: see (*) Name.</p> <p>New Value: A single library name or a range: see (*) Name.</p> <p>See also Rules for New Values below.</p>
Date	<p>Check Value: A single date or a range: see (*) Date and (*) Time.</p> <p>New Value: A single date or a range: see (*) Date and (*) Time.</p> <p>See also Rules for New Values below.</p>
Time	<p>Check Value: A time.</p> <p>New Value: A time.</p>
User ID	<p>Check Value: A single user ID or a range: see (*) Name.</p> <p>New Value: A single user ID or a range: see (*) Name.</p> <p>See also Rules for New Values below.</p>
Terminal ID	<p>Check Value: A single user ID or a range: see (*) Name.</p> <p>New Value: A single user ID or a range: see (*) Name.</p> <p>See also Rules for New Values below.</p>



Field	Explanation
Lang. Codes	Check Value: Up to 8 language codes. New Value: Up to 8 language codes. If more than 1 language code is specified, the Check Value must contain the same number of language codes. In this case, the language code in Check Value is replaced by the language code in the corresponding New Value.
Error number difference (+/-nnnn)	A 4-digit positive or negative numerical value. It can only be specified if start and end values are entered as selection criteria (Error number from/to). Otherwise, it is not possible to check if the result is valid (valid range: 1 to 9999).
FDT DBID/FNR	Check Value: A valid DBID and/or FNR. New Value: A valid DBID and/or FNR.

The following data can be specified for **Natural system files** for the load function only:

Field	Explanation
Load FNAT DBID/FNR Password Cipher	Database ID (DBID) and file number (FNR) of the target FNAT system file. This system file is used for all library objects whose library name starts with SYS, but not SYSTEM. <b>Additionally, you can specify the Adabas password and cipher code.</b>
Load FUSER DBID/FNR Password Cipher	DBID and FNR of the target FUSER system file. This system file is used for all library objects whose library name does not start with SYS, and for the library SYSTEM. <b>Additionally, you can specify the Adabas password and cipher code.</b>
Select (FNAT/FUSER)	<b>Invokes the Select System File window with a list of all system files available in your Natural environment: see System File Selection.</b>
Load NCP DBID/FNR Password Cipher	Specifies the target DBID and FNR of the Adabas file to which the Natural command processor sources are to be loaded. Additionally, you can specify the Adabas password and cipher code.



## Rules for New Values

The following applies to the New Value for Object Name, Library, User ID and Date:

If the New Value contains a range with an asterisk (\*), such as ABC\*, the number of characters before the asterisk (\*) determines the number of characters to be replaced in Check Value. This is also valid if Check Value is shorter than the range specified in New Value (see Example 2 below).

### Examples:

- Object name is ABCDEFG and New Value is set to ZYX\* the resulting object name is ZYXDEFG.
- Object name is AB and New Value is set to ZYX\* the resulting object name is ZYX.
- Object date is 2002-03-26 and New Value is set to 2003\* the resulting object date is 2003-03-26.

